

5. (Amended) The method of [any one of claims 1 to 4,] claim 4 wherein the CDK is free of phosphate at the tyrosine at a position that corresponds to position 15 in the amino acid sequence of CDC2a of *Arabidopsis thaliana*.

6. (Amended) The method of [any one of claims 1 to] claim 5, wherein the CDK protein is free of phosphate groups at both the tyrosine and the threonine, corresponding to the tyrosine at position 15 and the threonine at position 14, respectively, in the amino acid sequence of CDC2a of *Arabidopsis thaliana*.

7. (Amended) The method of [any one of claims] claim 1 [to 6,] wherein said CDK protein is a non-phosphorylatable CDK mutein.

11. (Amended) The method of [any one of claims 7 to] claim 10, wherein the CDK mutein [also] further comprises a T-14->A-14 mutation.

12. (Amended) The method of any one of claims 7 to [11,] 2 wherein said nucleic acid molecule encodes said non-phosphorylatable form of CDK.

13. (Amended) The method of any one of claims 1 to [6,] 3, wherein said non-phosphorylated form of CDK is due to dephosphorylation and/or inhibition of phosphorylation of CDK.

16. (Amended) The method of claim 14 [or 15,] wherein said nucleic acid molecule encodes said CDC25, Wee-kinase MIK, MYT or functional analogue or equivalent thereof.

17. (Amended) The method of any one of claims 1 [to 16, ] to 3 wherein said nucleic acid molecule is operatively linked to regulatory sequences allowing the expression of the nucleic acid molecule in the plant cell.

18. (Amended) The method of [any one of claims 1 to] claim 17, wherein the regulatory sequence comprises a promoter, enhancer, silencer, intron sequence, 3'UTR and/or 5'UTR region, protein and /or RNA stabilizing elements.

19. (Amended) The method of [any one of claims 1 to] claim 18, wherein said regulatory sequence is a chimeric, tissue specific, constitutive or inducible promoter.

22. (Amended) The method of any one of claims 1 to [21,] to 3 wherein said plant is a monocotyledonous or a dicotyledonous plant.

23. (Amended) The method of any one of claims 1 to [22] 3 wherein said plant is a crop plant, root plant, oil producing plant, wood producing plant, agricultured biocultured plant, fruit producing plant, fodder or forage legume, companion plant or horticultured plant.

24. (Amended) The method of claim 22 [or 23,] wherein said plant is wheat, barley, maize, rice, carrot, sugar beet, chicory, cotton, sunflower, tomato, cassava, grapes, soybean, sugar cane, flax, oilseed rape, tea, canola, onion, asparagus, carrot, celery, lentil, broccoli, cauliflower, brussel sprout, artichoke, okra, squash, kale, collard greens, rye, sorghum, oats, tobacco, pepper, grape or potato.

25. (Amended) A vector comprising the nucleic acid molecule [as defined in] of claim 20 [or 21].

26. A transgenic plant cell comprising at least one nucleic acid molecule [as defined in] of claim 20 [or 21 or a vector of claim 25].

27. (Amended) A transgenic plant cell comprising at least one nucleic acid molecule or regulatory sequence as defined in any one of claims 1 [to 21] to 3 [or a vector of claim 25] and further comprising a [further] nucleic acid molecule that is capable of conferring to a transgenic plant an additional phenotypic characteristic.